

The Fortnightly **REVIEW** OF THE CHICAGO DENTAL SOCIETY

Number 8
Oct. 15, 1955
Volume 30

The Production of Multiple Restorations With Hydrocolloid <i>Morris J. Thompson, D.D.S., Beverly Hills, California</i>	5
Chicago Dental Society November Meeting	11
News and Announcements	12
News of the Branches	13
Hygiene By Jeanne	16
Society Directory	17
Ethics Committee	17

ELMER EBERT

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Manuscripts and news items of interest to the membership of the society are solicited.

Forms close on the first and fifteenth of each month. The early submission of material will insure more consideration for publication.

Published semi-monthly by the Chicago Dental Society. Publishing, Editorial and Advertising Office: 30 North Michigan Avenue, Chicago 2, RAndolph 6-4076. Annual subscription \$2.50; single copies 15 cents; circulation 5,500 copies.

THE CALENDAR

- October 17-20:** AMERICAN DENTAL ASSOCIATION: Ninety-Sixth Annual Session will take place in San Francisco.
- October 20:** CHICAGO DENTAL ASSISTANTS ASSOCIATION: Regular monthly meeting will be held in the Conference Room of the Pittsfield Building, at 8:00 p.m. Mr. William Skach of the First National Bank, will discuss "The Chicago Dental Society Dental Budget Plan."
- October 27:** WEST SUBURBAN STUDY CLUB: Meeting at Phillips Stone Cottage, Elmhurst, with cocktails at 6:30 and dinner at 7:00. Dr. James F. Plants will speak on "Practice Management."
- October 28:** NAVY DENTAL RESERVE: Regular monthly meeting will be held at the Naval Armory, 8:00 p.m. Turn to page 32 for further details.
- November 1:** KENWOOD-HYDE PARK BRANCH: Regular meeting at Hotel Sherry. Dr. Charles G. Maurice, of the University of Illinois, will discuss "Differential Diagnosis of Pain."
- November 1:** NORTHWEST SIDE BRANCH: Regular monthly meeting at the Wishing Well Restaurant. The essayist will be Dr. Jesse Carlton; his subject, "Complete Dentures."
- November 2:** ALPHA OMEGA FRATERNITY: Annual Clinic Day will take place at the LaSalle Hotel.
- November 8:** ENGLEWOOD BRANCH: A Military Affairs meeting will be held at Nielsen's.
- November 8:** NORTH SIDE BRANCH: Regular meeting will take place at the Edgewater Beach Hotel. Dr. Wm. P. Humphrey, of Denver, Colorado, will discuss "The Use of Stainless Steel in Children's Dentistry." Table clinics and movies in the afternoon, regular program in the evening.
- November 8:** WEST SUBURBAN BRANCH: Regular meeting at the Riverside Country Club. Col. John P. Christiansen, of Washington, D. C., will speak on "Full Dentures."
- November 9:** UNIVERSITY OF ILLINOIS COLLEGE OF DENTISTRY: Annual Alumni Day will feature a full day's program on "Full Mouth Rehabilitation," utilizing television.

91st MIDWINTER MEETING

THE CHICAGO DENTAL SOCIETY

Conrad Hilton Hotel

February 5, 6, 7, and 8, 1956

"LEARN & MIX IN '56"



The Fortnightly **REVIEW** *of*

THE CHICAGO DENTAL SOCIETY

October 15, 1955

Volume 30 • Number 8

The Production of Multiple Restorations With Hydrocolloid*

Morris J. Thompson, D.D.S., Beverly Hills, California

[Editor's Note: *This paper brings out some of Dr. Thompson's latest technics relative to hydrocolloid work. Since it is also in the nature of a progress report, we feel that the material is important to the profession as a whole.*]

Progress in scientific dentistry has been augmented greatly by the application of the hydrocolloid indirect technic. Its role in the profession has been acclaimed by many as an innovation comparable to nitrous oxide, novocain and the diamond rotating instruments. Phenomenal results for single and multiple restorations have been obtained by experienced operators using a standardized procedure.



Dr. Thompson

Through the accuracy of models made from hydrocolloid impressions, the dentist is able to delegate the mechanical work to auxiliary help, providing additional hours at the chair to care for more patients—a most commendable factor because of the need for more and better health service.

Dentists who have obtained gratifying

results can in no way be deterred from using the hydrocolloid technic. To substantiate the enthusiasm of these operators and the merits of the procedure, 895 returns to a questionnaire revealed that 88 per cent of the dentists surveyed found that the practice of dentistry required less physical effort, 89 per cent indicated that their dentistry had improved, while 95 per cent voiced the opinion that the practice of dentistry was made easier—three very significant attestations.

CHARACTERISTICS OF REVERSIBLE HYDROCOLLOID

It is well recognized that hydrocolloid has a different viscosity at various temperature levels. At the boiling point, hydrocolloid is fluid; when stored at lower temperatures, it is semi-fluid; when cooled further for the comfort of the patient, it becomes more firm. At the temperature of 100° F., it gels¹ and as the temperature is further decreased, the material becomes resilient and elastic. The nature of the material permits it to be reversed to form a solution with the application of heat at or near 212° F., and for this

*Presented at the 1955 Midwinter Meeting of the Chicago Dental Society.

(Dr. Morris J. Thompson was graduated from the University of Southern California College of Dentistry. He was on the faculty of his alma mater from 1929-39 with a special lecture course on Cuspal Coordination and from 1949-54 with a special lecture and work program for senior students only on Hydrocolloids. He was also a member of the faculty of the University of California, Extension Division, from 1947-55 with a two-day postgraduate course on Indirect Inlays.

Dr. Thompson is a member of many dental organizations, including the Federation Dentaire International and the American Denture Society. He was a representative of the United States at the 1st Pan American Congress of Dental Universities in Buenos Aires, Argentina, in 1952.)

peculiar property, the gel has been described as a reversible hydrocolloid.

PREPARATION OF HYDROCOLLOID IMPRESSION MATERIAL^{2,3,4} LIQUEFYING

Hydrocolloid material should be heated at or near 212° F. in a syringe or package for a minimum of 8 minutes to reduce the material to a liquid and a homogeneous mass. The use of heating equipment with thermostatically controlled temperatures in each of three water baths obviates the threat of burning or bursting the package of material which might occur should all the water in the baths evaporate.

Boiling the package or syringe in water which surges vigorously will cause the material within the package to boil, developing steam pressure so great in some instances that the package will break and the plungers in the syringes may be extruded completely. To avoid this troublesome phase, the water in the bath should be heated to a temperature which produces a slight visual turbulence or a gentle boil.

It has been found that an additional period of five minutes is necessary for each re-liquefaction to prevent granulation and to produce a homogeneous mass after the hydrocolloid material has been stored. The application of additional heat does change the characteristics of the material, giving it a little more body which in turn calls for a slight decrease in the time required for tempering.

A problem in preparing the material is encountered at high altitudes inasmuch as the boiling point of water is lower. General speaking, the material will melt

at a temperature of 200° F. (the boiling point of water at an elevation of 6,000 feet), though difficulty may be experienced from time to time caused by misbehavior of the agar in a particular batch of hydrocolloid. Such difficulty is evidenced by the material being granular when extruded from the syringe or package after it has been stored for a period, and the firmness in tempering developed in much less than the normal required time. To provide a more usable product at high altitudes, the period of liquefaction should be increased substantially or the syringe or package placed in an autoclave sterilizer.

STORAGE

The temperature for conditioning and maintaining the material for use throughout the working day should be at or near 145° F., providing the temperature can be maintained at this level. A lower temperature may be used but is critical inasmuch as the cavity syringe may be removed from the bath for a period sufficient to cause the loss of several degrees of heat, causing the hydrocolloid to be more viscid, thus preventing it from flowing readily through the needle and over the tooth and cavity. A higher temperature such as 150° F. or 155° F. does not render the material less accurate but the syringes are hotter to handle and the patient given more discomfort.

When the package or syringe of liquefied hydrocolloid material is transferred from the 212° F. bath to the storage compartment, it should be maintained in this 145° F. bath for a minimum of 5 minutes before the impression tray is filled. This

waiting period will reduce the steam voids and produce a material with less fluidity and more acceptable for filling the tray, and the small syringe will be more comfortable to handle.

TEMPERING

Further conditioning of hydrocolloid material in an impression tray is essential for two reasons: (1) to increase the body of the material to provide sharper impressions of the margins and submarginal area in the gingival crevice, (2) for the comfort of the patient. The period for tempering depends solely upon the temperature of the bath; at 114° F. a minimum of approximately ten minutes is preferred. Although ten minutes might seem to be a long period, it can be synchronized with the retraction of the gingival tissue without loss of chair time. This period may be extended if conditions in the mouth are not favorable for taking an impression, and a total of 15 minutes is acceptable, providing the temperature of the bath does not fluctuate and is maintained at 114° F., not less.

Hydrocolloid material which has not been liquefied thoroughly will behave differently, reaching a firmness in the tempering bath sooner than normally expected. This occurs more frequently when the material has been re-liquefied a second and third time. An experienced operator will detect this firmness of the tray material in the bath by testing it with a blunt instrument.

A temperature lower than 114° F. may be used and accurate results obtained merely by shortening the tempering period. The objection to a lower temperature is that the technic is critical and the material will gel too soon, sometimes before the impression is made.

Though most of the hydrocolloid materials on the market today react similarly to time and temperature, it is well for the operator to acquaint himself with the characteristics of each individual product. For example, one material when conditioned at a given time and temperature will have a tendency to flow out of the

tray, while another material of a different formula will maintain its position with very little change.

EXPOSING THE CAVITY MARGIN⁵

Probably the most troublesome phase of the hydrocolloid indirect technic is the retraction of gingival tissue. It is well to discuss this phase for without adequate exposure of the cavity margin, the technic fails. Retraction methods should be considered in two general groups—conservative and radical. The Conservative Method may be any procedure which may traumatize yet healing will take place within 24 hours. The Radical Method constitutes the destruction or removal of tissue for exposing the cavity margin by means of the knife, electrical instruments or by chemical agents.

CONSERVATIVE RETRACTION—INLAYS

The preparation is made in the usual manner, in normal cases for Class II, III, IV and V cavities. Conservative retraction for exposing the gingival margin without loss of tissue can be handled very easily as follows: (1) when the tooth is isolated and dry, tuck a short single cotton strand impregnated with alum crystals (prepared by immersing cotton cord in a saturated solution of alum, then allowing the cord to dry) into the crevice with a No. 3 S.S.W. explorer or a suitable instrument, pressing the fiber to the bottom and extending it the full length of the crevice adjacent to the cavity margin. The dry crystals readily absorb the seepage and redissolve and, through the styptic action of the chemical, seal off the capillaries; (2) One or two drops of epinephrine solution (1% or percentage of choice) are applied to the compressed fiber, allowing it to fill the crevice. The moist alum-bearing fiber functions as a wick, carrying the liquid, a vaso-constrictor, to the very depth of the crevice and, by absorption through the tender thin epithelial wall of the crevice, it is carried readily into the connective tissue. The period of time required for full action of this drug and relaxation of the tissue for

mechanical retraction will depend to a great extent upon the health of the tissue. The effectiveness of the epinephrine will be indicated by the color of the tissue and the extent of the blanching of the tissue will, to some degree, determine the working period for further retraction; (3) the wet strand is removed and the relaxed tissue washed free from chemicals. The area is again isolated with cotton rolls and the crevice dessicated with blasts of air; (4) a short length of sterile thread is placed in the crevice to its full depth, completely exposing the area beyond the cavity margin. This thread may be ordinary sewing thread, available in a variety of gauges, or especially glazed thread having a hard texture, such as button thread.

The impression is made while the crevice is open and the thread is in place. The width of the open crevice provided by a thread permits a bulk of hydrocolloid material to extend into the crevice minimizing the possibility of a fracture of the impression upon removal.

THREE-QUARTER CROWNS

Conservative retraction for a three-quarter crown preparation is handled as previously described, using alum and epinephrine. Then, as an effective substitute for the short length of thread employed to open the crevice, a long length bearing a loop may be used in the accessible parts of the mouth. The loop is formed in the center of the thread with a single knot. It is placed over the prepared tooth and tucked into the crevice. The knot is pulled together and a drop of warm wax added to hold the loop taut around the tooth yet yield sufficiently to allow pressing the thread farther into the crevice. The impression is taken while this thread is in place.

RADICAL RETRACTION

Radical exposure of margins for accurate marginal impressions becomes necessary when there is insufficient tooth projecting beyond the gingiva for the retention of a three-quarter crown. In some

cases of this type, the result of a fracture or caries, it may be necessary to remove bone to provide adequate retention or secure a marginal impression. Incising with a surgical knife is the method of choice for removal of soft tissue. It cuts clean and without traumatizing the underlying tissue, reflecting in a more rapid healing. The bleeding is stopped with one of the electrical instruments, Monsell's solution or with zinc chloride (40%) impregnated cotton fibers. Upon securing a dry field, the impression is taken.

Before the patient is dismissed, the surgerized tissue should be treated with an aqueous solution of metaphen or a comparable mild antiseptic and the tissue and tooth covered with a zinc oxide-eugenol cement. The area should be protected with the pack for three or four days, or for a sufficient period to allow the damaged tissue to heal or new tissue to develop.

Radical procedures are justified when it is expedient and necessary to obtain complete exposure of the margin for constructing a durable restoration. Such a procedure is followed in many instances around molars and bicuspsids, especially where there is prolific caries and when the health of the surrounding tissue can be improved. Further, complete retraction of the gingiva facilitates preparing, extending and finishing the cavity margin without visual obstruction.

The use of dry zinc chloride impregnated cotton strands made from a 40 per cent solution may be indicated for exposing the cavity margin but when applied should be considered a radical treatment. It can, however, be administered with a minimum loss of epithelial tissue if it is applied for no more than one or two minutes. When it is retained for an extended period, packed tightly into the crevice, sloughing will occur. The depth and amount of tissue loss will depend entirely upon the penetration of the chemical. Its use around posterior preparations for short periods is acceptable, providing results immediately in most cases, without necessity of resorting to more radical procedures.

CARE OF THE PREPARED TOOTH AND TRAUMATIZED TISSUE

At the conclusion of the operative session, the exposed dentin and traumatized or surgerized tissue should be treated and protected from the fluids of the mouth containing chemical and bacterial irritants. The tissue and cavity are isolated and dried, then a mild antiseptic applied and the entire area covered with a zinc oxide-eugenol cement pack. By providing this protection routinely, a great deal of post-operative discomfort for the patient can be averted. The medicated pack is soothing to the soft tissue and comforting to the tooth. From long standing experience, zinc oxide-eugenol cement has proven an excellent temporary material, sealing well and non-irritating to the pulp.

Instances where the traumatized tissue flares up from an infection following the seating of a restoration, a special treatment is necessary. A quick recovery can be obtained if the teeth adjacent to the offending tissue are cleaned to remove bacterial plaque and food, followed by the application of chromic acid (10%) or the medicament of choice. Preparatory to the treatment, the area is isolated and dessicated to as great a degree as possible. Immediately, the caustic action of the acid is nullified by spraying the area with a solution of peroxide. The tissue is again freed of moisture, then protected with a zinc oxide-eugenol cement pack locked between and around the teeth for at least 24 hours. With subsequent treatments, which are generally necessary, the application of chromic acid is omitted and any mild antiseptic employed.

PRODUCTION OF ACCURATE IMPRESSIONS

Success in the production of accurately fitting restorations depends upon the operators adherence to essential technical steps and care in handling a very delicate material. It is important also that the material in the tray be free from a water-soaked surface, exudation from the package extending through the material,

lumps or a crusty surface. The latter results from prolonged exposure or cooling in the air as a tempering process. Imperfections in the impression may be avoided if the cavity is free from blood and grindings, the tissue and crevice are dry, then only uncontaminated material used in the tray and fresh hydrocolloid, free from water, injected from the syringe into the cavity.

IMPRESSION FOR A THREE-QUARTER CROWN

The tray, whether for a full impression or a single tooth area, should be sufficiently large to extend beyond the prepared tooth or teeth to accommodate a bulk of hydrocolloid material. This quantity permits this elastic material to stretch more freely and pull by undercuts with less chance of fracture or distortion.

The small, bi-lateral, tray should be supported at each end with a roll of compound or wax, providing a means of stabilizing the tray against the teeth during the chilling process.

The tray should be filled with smooth, flowing ungranular material from a dispensing syringe, then placed in the tempering bath for final conditioning. During the tempering period, the margins of the cavity are perfected and tissue displaced, exposing all margins.

Just before taking the impression, the surface of the tray material is scraped away in the area to be involved in the impression, by the dental assistant, to a depth of about $\frac{1}{8}$ of an inch, completely removing the surface contamination from the water bath. The water-cooling rubber tubing is attached and the tray held ready for the operator. Simultaneously, the operator removes the small syringe from the storage bath, wipes the needle and barrel free from water, and extrudes a portion of hydrocolloid material from the needle in an area away from the cavity. With the material flowing, the point of the needle is moved into the cavity on the floor of the gingival step. With the needle held against the surface of the cavity, and with a continuous flow

the cavity is filled and all margins covered. Immediately, the tray of material is placed over the ejected material, pushed to place and held securely until the material is congealed thoroughly by drawing water through the tray tubing.

Removal of the impression is accomplished by placing the fingers on the hydrocolloid extending beyond the metal tray and pressing firmly to snap it out of position.

CARE OF THE IMPRESSION

Upon removing the hydrocolloid impression from the mouth, it is washed under the tap to free the surface of remaining particles and saliva. This is followed by blowing the excess fluid away to expose the cavity impression and marginal outline for a critical examination under magnification. It is placed then in a fixing solution of potassium sulfate (approx. 2%) to neutralize the harmful agar chemicals oozing from the material and to hasten the set of the stone upon pouring the impression.

Phillips⁶ has demonstrated that models have a smoother surface and chalky growths are prevented if the impression has been treated with this chemical.

TREATMENT OF THE HYDROCAL MIXTURE FOR MODELS

Though regular denture hydrocal serves very well for models, and dies, the improved stones according to scientific tests⁷ provide greater surface hardness. Both products require a definite technic if one is to obtain a smooth, hard surface and a model having the desired expansion⁸ to compensate for the shrinkage of hydrocolloid impressions.

For the preparation of models the hydrocal powder and water should be mixed thoroughly and air voids reduced to a minimum. Hand spatulation is not acceptable because it introduces many variables and does not produce the fine texture in a stone die that can be produced with a mechanical spatulator such as used with inlay investment. The addition

of vacuum to spatulation reduces the air spaces in the mixture, providing models which are smoother and harder. The surface texture and hardness can be increased further by placing and compressing the mixture in a towel to reduce its water content. Preparation of the mixture may be facilitated and standardized by the use of a water-powder ratio of 22/100 which is not too stiff for spatulation and permits the air to be removed readily in vacuum, followed by the reduction of the water content to approximately 19/100 by means of the towel.

POURING THE IMPRESSION

The impression is blown free from all fluid before the introduction of any of the mixture. A dry surface is not desirable and should be avoided since there is a danger of distortion resulting from the removal of water from the fin-like projection making up the cavity margin and submarginal area.

Small portions of the stiff stone mixture are picked up with a small pointed instrument and placed on one side of the tooth containing the cavity impression, then gently vibrated to place. The moist surface, indicating the most acceptable condition, allows the stiff mixture to move into the impression. The first, second and third applications of stone mixture are placed or introduced from one side and each portion vibrated to place in succession, down across and up the opposite side, forcing the remaining fluid out of the critical field with only undiluted and uncontaminated stone forming the model. After all margins are covered, an oval shaped portion of mixture is formed with the fingers and placed over the soft stone and vibrated slightly for a bond, providing a stem for handling the die in the formation of the wax pattern.

The poured impression is then placed in a humidor,⁸ or preferably in a potassium sulfate bath,⁹ for at least one hour. The model may be removed sooner but in some instances where the model is pulled through a restriction, the sharp delicate margins may be destroyed. For

(Continued on page 26)



CHICAGO DENTAL SOCIETY

MONTHLY MEETING

CONRAD HILTON HOTEL



*This is not a high speed meeting
but better dentistry faster*

Gratefully presenting:

DR. ROBERT J. NELSEN

National Bureau of Standards, Washington, D. C.
Former teacher University of Washington in Seattle

SUBJECT: "Hydraulic Turbine Contra-angle Handpiece"

and

Dr. Herbert C. Gustavson

Chicago, Illinois

and

Dr. John A. Anderson

Chicago, Illinois

SUBJECT: Practical Application of Today's High Speeds in an Organized Operative Technique

Tuesday evening

8:00 o'clock

November 15th

The Waldorf Room

NEWS AND ANNOUNCEMENTS

BOYDEN SENTENCE UPHELD BY APPELLATE COURT

The Second District Appellate Court of the State of Illinois has upheld the sentencing of John M. Boyden, owner and operator of the Boyden Dental Laboratory, Joliet, Illinois, who was found guilty in County Court in September, 1954, of violating the Dental Practice Act by being the operator of a dental laboratory where illegal dental work was performed. He had been fined \$1,000.00 on each of two counts and sentenced to spend one year in the county jail.

DENTAL ASSISTANT PROGRAM IN LEYDEN TOWNSHIP HIGH SCHOOL

Leyden Township Community High School in Franklin Park, announced this week, as part of their Diversified Occupations program, that several junior and senior girls are interested in dental assisting as a vocation. In this program, under the direction of Walter Pitts of the high school staff, the students spend their morning in school, and their afternoons working on the job. Four hours per day, according to Mr. Pitts, is the minimum time required on the job. The minimum wage is \$1.00.

Mr. Pitts explained that dentists in the West Suburban area who might be interested in training a girl as an assistant under this program should contact him by calling GLadstone 5-1416, Ext. 25. In order for the students to get full school credits, they have to start by the beginning of the second grading period, which is about October 15th, he pointed out.

"Two Franklin Park dentists who participated in the program last year are very enthusiastic with the results they had," said Mr. Pitts.

UNIVERSITY OF ILLINOIS ANNUAL ALUMNI DAY

A program on "Full Mouth Rehabilitation," made especially interesting by the use of television, will be presented at the University of Illinois College of Dentistry Alumni Day on Wednesday, November 9th. Starting at 9:30 a.m., the sessions on this subject will continue throughout the day.

OPDAHL THANKS

Dr. Olaf Opdahl, Chairman of the Monthly Meeting Program Committee, has asked the FORTNIGHTLY REVIEW to thank Dr. A. C. Macaluso for his help at the September 27th monthly meeting in the Waldorf Room at the Conrad Hilton. Dr. Macaluso fresh from a three-day study course with the essayist of the evening, Dr. Earl Pound of Los Angeles, aided the General Arrangements Committee and Dr. Opdahl in staging the meeting by changing slide magazines on the tricky self-loading projector the essayist had imported.

DENTAL STUDENTS NOW ELIGIBLE FOR NATIONAL GUARD COMMISSIONS

The attention of all second, third and fourth year dental students is called to a recent change in Army Regulations which allows them to be commissioned in the National Guard as Second Lieutenants in the Medical Service Corps in lieu of a commission in the Dental Corps.

Service in the National Guard is applicable toward retirement credit, as is all previous military and naval service which some of these students may have. Compensation at Second Lieutenant's pay is given for each two-hour meeting

(Continued on page 32)

NEWS OF THE BRANCHES

NORTH SIDE

As a pinch-hitter for North Side Editor I. H. Shapiro, I find it a man-sized job for he is a real newshound. . . . Paul Brown appeared on the Neimark Telecast discussing space maintainers in the prevention of impacted bicuspids and Hal Rabin discussed anesthesia. The latter will also speak before the Northwest Branch on Oral Surgery, at the Wishing Well Restaurant. Here's *wishing you well*, Harold! . . . The Peterson clan is as busy as ever, with Clarence, Sr. hunting on the shores of Lake Superior with seven classmates (Northwestern class of 1916). He did a bang-up job as Chairman of the Northwestern Alumni drive and had alumni representatives as luncheon guests, followed by a football game. Pat and his Frau are parents of a 7 lb., 4 oz. baby boy born Sept. 28th. The Bob Petersons are infanticipating. Congratulations! . . . Joe Eisenstein, recently returned from service, is now located in the beautiful Westridge Medical Center with I. S. Wener, Irv Simon, and Seymour Goldberg. . . . The Ted Dubrows plan to celebrate their 19th anniversary and second honeymoon by attending the A.D.A. meeting and visiting L. A. and points west. . . . A large delegation of North-siders, including most of the Board, will be at the meeting. Among them are, H. Sitron, E. Elman, Wm. Osmanski, R. Boothe, and M. Altus. . . . Marshall Nilsson stationed at Offut Field, Nebraska had an interesting experience as acting Colonel in the absence of the regular Colonel. . . . Stan Buckner, whose hobby is collecting old and rare manuscripts, uses them to decorate the walls of his reception rooms, proving very interesting and relaxing to his apprehensive patients. . . . Jack Stillerman plans a new office building in the 2000 block on Devon. Good luck! . . . The Uptown Forum met at Condes restaurant and the

nominating committee selected the following slate: Stan Buckner, President; Herb Krummel, secretary; Howard Abelman, program chairman. . . . Sam Jacobson is building a new home in Wilmette. While viewing the *Tribune* Festival home in Lincolnwood, I ran into Jules Barrash watering the lawn of his beautiful wigwam. . . . Wally and Mrs. Goldsmith left Oct. 1st for a tour of Europe with stops in Israel, London, Rome, Paris, Nice and Switzerland. Mrs. Goldsmith will attend the Supreme Council for Maladjusted Childrens Homes. . . . Henry Parkin will visit his mother in L. A. and look over the heavy industries there. . . . North Side was saddened by the passing of Robert Appleman, Professor of Prosthetic Dentistry at Northwestern and Zoller Clinic. Dentistry will miss him. . . . Earl Elman reports that the Illinois Delegates to the A.D.A. meeting have been requested to vote favorably for O.A.S.I. . . . Les Kaplin just returned from 6 weeks in California, 2 weeks of which were spent with Ernie Myer in the San Francisco area. . . . I. H. Shapiro, North Side editor, has just returned from an extensive tour of the West. While on the coast he visited the two clinics conducted by the Longshoremans Union which have the approval of the California State Society. . . . Maury Altus will attend the Periodontia course at Michael Reese. . . . Bill Semiloff visited his parents in New York and also took in the World Series. . . . Danny Silberberg, that red-hot golfer, and Mrs. Silberberg are the proud parents of a baby daughter and so is Danny's sister Lois and husband. . . . Al Mark is really living it up in Hawaii, with Uncle Sam's army. He has rented a beautiful ranch home and spends much time deep-sea fishing. . . . Art Duxler, Clinic Chairman, is getting everything ship-shape for Clinic Day Nov. 30th. We know he will do a good job so mark off that date for the Edgewater

Beach. . . . Stan Goldberg is boning up for his limited attendance Clinic on Photography for the Midwinter meeting. —*Warren E. Gerber, Guest Correspondent.*

WEST SUBURBAN

"It just couldn't happen to a better guy" is what they said at Werner Gresens' Day when a group of his friends honored the immediate Past-President of the Illinois State Dental Society at a golf outing recently. And believe me they meant it, for they just don't make that kind of guy no more. Held all the Branch offices plus many for C.D.S. and nearly all the State jobs at one time or another. Many of our branch members at the party, Opdahl, Kritzke, Humphrey, the two Maxsons, Moore, Voita, Lunak, Jim Betty, Frymark, Weihe, Pasquini, Madden, Hinrichs, Walters, Brett, plus many others from other parts of the city with this group headed by C.D.S. President Gus Solfronk. . . . Found out that Ev Walters can play the piano as well as Erwin Gramke. . . . There just seem to be good meetings popping up everywhere. Went out to Rock Falls to the N. W. Seminar of the State Society Study Committee with Paul Swanson and Carl Madda. Heard a good program mixed with fine fellowship and excellent food at Jul's Danish Farm. . . . Hear a certain fishing teacher on Madison St. will give his pupils Carl Mitchell and Frank Krivanek their final lessons for this year. Wonder who gets hooked? . . . Grapevine tells me F. L. Boyle is moving to Batavia. . . . Now what's in store for next month in the Branch—At the West Suburban Branch Tuesday, Nov. 8th at Riverside Golf Club—Colonel John P. Christiansen of Washington, D.C. who will cover the subject of Full Dentures. . . . Then the West Suburban Study Club announces Dr. Jim Plants of Evanston will be the speaker on Thursday, Oct. 27th 6:30 p.m. at the Stone Cottage on North Ave. at Rt. 83 in Elmhurst. All West Sub. members invited. . . . Last but not least,

the West Sub. Round Table meeting Monday noon at the Oak Park Club on Nov. 7th. If you are not receiving the mailed announcements, see Anthony Malone, Membership Chairman or the Secretary Howard Buchner at the next Branch meeting. . . . Which reminds me that there are many men who have moved recently. Have you recorded the change in address with the Dept. of Registration and Education of the State of Ill.? The law requires every dentist to keep the Dept. always informed of the correct location of his license to practice. There is a penalty for failure to do this. Also it must be recorded in the County Clerk's office in the county that you practice. . . . Rudy Hinrichs just returned from a fine trip to the Pacific Northwest. He looks the best he has in years. . . . Matthews, Lambert and Emery of LaGrange will be selling flapjacks for Kiwanis on Oct. 15th. Have yours with them that day. . . . Frank Young has taken up temporary residency in St. Elizabeth's hospital where he had an operation. We wish him a speedy recovery to a much more pleasant area. . . . We'll leave you with a parting thought—Many a gal who is scared to death of a mouse in a lighted room, will think nothing of going on a twenty-mile drive on a dark night with a wolf.—*Bob Pollock, Branch Correspondent.*

NORTHWEST SIDE

This column will be very short and snappy but at least the typesetters will be happy (but until my typing improves I won't be able to look a proofreader in the eye). . . . The Loyola Golf Outing last month was their most successful outing, with 250 alumni and friends for dinner. The president of the C.D.S., Gus Solfronk won one of the bigger prizes and my spies informed me that our president, Joe Lebow, also walked off with a prize. And that sixth hole had the boys swinging for the downs for a 1000 dollar hole-in-one prize offered by Mr. Huntington of Huntington and Homer Insurance. He got away with it this time and the

money made was graciously turned over to the Loyola Alumni Fund. . . . Mitch Kaminski and Irv Lebow (my Bloomington spy) took the oral surgery specialty board last month; the best of luck to you men. . . . Also heard that Irv (a classmate) has moved into a new home out there in the farm country. . . . Simon Price is moving into new offices with new equipment, but he is staying with the Northwest Side. . . . And in closing let me urge you again to attend your branch meetings. Certainly a little additional knowledge and companionship should almost compensate for a few hours of practice time lost in attending five meetings a year.—*Lee Schwartz, Branch Correspondent.*

KENWOOD-HYDE PARK

With our first meeting a huge success we can now look forward to the next one on November 1. Dr. George Krueger of Waukegan, a very successful practicing dentist, will take our patient through case presentation. If you missed our first meeting, which was extremely interesting and informative, plan on the next one which will be of great value to you and your practice. . . . The Loyola Alumni Golf Outing was a huge success. The crowd was the largest ever and it was a day of fun and relaxation for all of those who attended. John McBride almost missed the outing, he got in at 6:00 that morning from his British Honduras trip. That's a long way to come for a golf outing, isn't it, John? Walt Dundon, the Chicago Dental Society's traveling secretary, came out to dinner. Your truly played golf and had a fine time. . . . Henry Leib appeared on the Smiles Club TV program on October 10th. Henry discussed space maintainers and at the same time tried to sell Mort Neimark a season dinner ticket. Henry is just waiting for your call to make dinner reservations. Call him at MI. 3-9607 and see how well he will handle your order. . . . Ken Johnson will now hang his hat in Evanston. Now Ken has the convenience of having his home

between his downtown and Waukegan offices. After moving, Ken will leave for Los Angeles to attend the American Society of Oral Surgeons Meeting. . . . The officers and members of Kenwood-Hyde Park wish to express their deepest sympathy to the family of Dr. Robert Appleman. Dr. Appleman passed away on September 25. Dr. Appleman's life was dedicated to teaching and the advancement of his profession. Dentistry has indeed suffered a great loss. We understand that a scholarship fund has been set up by Dr. Appleman's associates and friends to which contributions can be made in his honor. If you are interested, please contact the Central Office. . . . Lester Boyd has been appointed head of the Department of Prosthetics at his Alma Mater, St. Louis University. Les will assume this position on a part-time basis and commute between St. Louis and Chicago. Congratulations, Les. . . . If you have an ultra-modern office and wish to install air-conditioning for next summer, better check with Greg Strobel. Greg had to take out his equipment in order to put in his air-conditioner. . . . Bill Sone had some surgery performed on himself this summer and is now completely recovered and working as hard as ever. . . . Bob Kreiner's mother-in-law is very ill and his wife is with her in Ohio nursing her back to health. . . . Ben Gans received an appointment as Assistant Professor of Oral Surgery at Northwestern University. Congratulations to you, Ben. Ben is going to the American Society of Oral Surgery meeting in Los Angeles and then to San Francisco where he will give a projected clinic. . . . After a severe case of Chicken Ala Kingitis, Graham Davies addressed the Dental Assistants Association and also appeared on the Smiles Club TV Program. . . . Rudy Grieff, Willard and Larry Johnson, Jack Moran and myself helped Notre Dame to get off to a win over Southern Methodist, you can tell by the names—they weren't all cheering for Notre Dame. . . . Harry Paule has been seen working diligently on his golf game at Idlewild this summer and we

(Continued on page 22)

HYGIENE BY JEANNE

Greetings from the windy city. 'Fraid this column isn't coming via air mail special delivery from Sunny Cal. A few of us had to stay here, you know? Just happened—I'm one of them. Reason: was feeling mighty dedicated—don't know if it's to my job . . . or the pocket book!

Right about now our own Enid Andrews is probably up to her ears in work. This year Enid is the clinic chairman for the National Meeting. Next rung in the ladder up?

Marge Thorton, another N.U. graduate, is this year's president-elect for the ADHA. She will be the newest face in the West when she assumes her position in the hilly town of San Francisco.

Taking off tomorrow (Oct. 16) will be: Penny Gale, Georgia Potts, and Marilyn Janson. Penny is the V.P., alternate delegate, and will conduct a clinic with Georgia, on visual aids used in dental hygiene. President of the C.D.H.A., Julie Haase, will attend the meeting also. She will lead the Chicago delegation there, and we hope, pick up many new ideas to be used at the next session of the Windy Town meeting. That meeting is one I won't miss!

Rita Wright, another conventioner, left Thursday and probably has taken over the Pacific Ocean by this time . . . what with water skiing and all. We look forward to her return with all the tall Western tales.

Evelyn Maas, in between her supervising plus night school, had time to inform me that the Freshmen Class of D.H. totals a booming 33. 24 make up the senior class. Graduation 1955—anyone need a hygienist?

The Normandy House was the scene of a Board of Directors Meeting on October 4. Midwinter Meeting plans were mapped out, tentative group meetings organized and a few clinic ideas came forth. By the way, any suggestions?

A few other newsy bits: Judy Levy was married this summer. To whom, Judy? Geneva Raver, another new bride (Oct.

14) is honeymooning at Greenbriar, White Silver Springs, West Virginia. Ah yes, and then back to work!!

Gerry Carr, her husband and family have just moved into a new home in Niles. Hope you enjoy your new home, Gerry.

Welcome home to Nancy (Just) Yahr, husband Bob and almost-year-old daughter Susan. They just returned to the states from Japan and back to Chicago where Bob is doing graduate work in orthodontia and Nancy is completing her course in D.H.

Dot Shanahan, out Texas-way, just had a baby girl, likewise did Jeanne Kubik. Hope I'm not letting the cat out of the bag, but Doris Pusateri is planning a December wedding.

And . . . I'm planning to quit—right now. See you next issue.—*Jeanne Castle.*

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Applications for Membership

The following applications have been received by the Ethics Committee: Any member having information relative to any of the applicants, which would affect their membership, should communicate in writing with Eugene M. Stearns, 1580 Sherman Ave., Evanston. Anonymous communications or telephone calls will receive no consideration.

Applicants

BURNS, WILLIAM PAUL (U. of Ill. 1955) West Suburban, 521 Madison St., Maywood. Endorsed by Charles F. Hebling and Theodore B. Kurtz.

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(Continued on following page)

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NEWS OF THE BRANCHES

(Continued from page 15)

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Dentist, Age 31, Service completed, is interested in locating area in need of dentist and with office space available, within 30 to 40-mile radius of Chicago. South or Southwest preferred. Address V-23, The Fortnightly Review of the Chicago Dental Society.

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understand he has his eye on some trophies. . . . Mark Reardon and son are going to San Francisco the long way; they are going to visit Colorado Springs, Santa Fe, Albuquerque and then to the ADA meeting. . . . Henry Urban's father, who is now retired and living in Florida, came up north for a welcome visit with Henry. . . . Bill DeLayre slipped and fell off a ladder and broke his arm, we all hope it heals quickly, Bill, but that's a heck of a way to get a vacation. . . . Jesse Carlton is going to the ADA meeting and also will take a run over to Marysville, California to visit with his son Tom who is in the Air Force at the Beale Air Base. . . . Linn Cooley reports that the cruise to Mackinac with the Shriners last summer was a very enjoyable experience.—Howard J. Harvey, Branch Correspondent.

ENGLEWOOD

results. Joe came home with a full creel and reports having himself a good time. . . . As this column depends upon "little birds," my furtive watchers *dropped* this info Twit . . . Lou Sousa is on a three-weeks' fishing trip to Beloit and points south. Wonder whether his creel became loaded? Tony Williams is back from Oklahoma City, where he visited his in-laws. . . . Our first meeting night had

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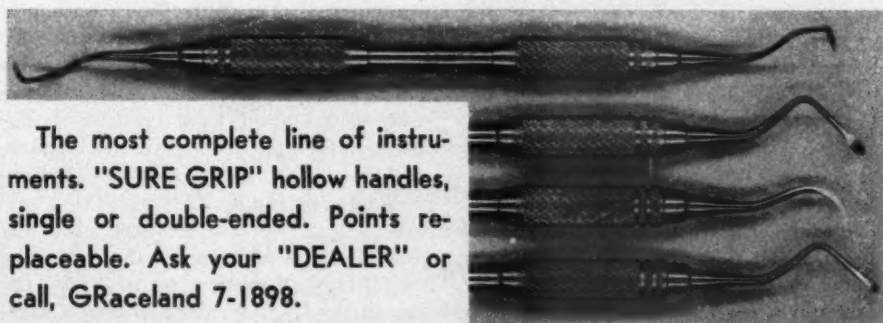
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competition with the beginning of the Holy Cross Bowling league probably accounting for the absence of some of the members, who are not split personalities, namely—Williams, Victor Seitz, Joe Kuschell, John Simkus, and M. Klabacha. . . . Eugene Jaffe will serve as Chairman of the 1946 class of CCDS when they hold their reunion come February at the Midwinter Meeting. Hilton, Klabacha, Unger, and Ken Kehl are embers of this red-hot committee, who plan to do a fervent job. . . . Larry Michet is back from service and now located in his own building. Welcome back, Larry, and plenty of Good Luck after having done your duty and gone through Ye Olde Service Mill. . . . Frank Farrell recently took his daughter back to college in Denver. Made a 7-8 day trip of it. . . . Al Person and Harold Hayes were seen "Poweramering" one Wednesday. Wonder if they were thinking of a new cavity prep. technique after watching the big diesel Earth Movers operate. . . . "Prof" Sorley reported looking fine and feeling same. . . . Deepest apologies to John Holmes for not mentioning Sept. 30th T.V. program on "Children's Dentistry." We are now limited on the amount of space and ran out completely. . . . With regret it was learned that Dr. Olney Tobin passed away July 19, 1955. He was a credit to the profession, his work always State Board quality. He took time out to go to Springfield on his own to help fight House Bill 1118. The dental profession can ill afford to lose hard-working men

of his calibre. . . . Understand Willis Bray became a new papa-in-law. He gave away his daughter Dorothy Kerz, who became Mrs. Charles Gulbransen to make the exchange fair. The new husband is from Burlington, Wis. and is a Senior Student in Business Administration at the U. of Wisconsin. Daughter Dorothy is a Junior at Lake Forest. Congratulations, Willis, and much luck and happiness to the newlyweds. . . . "Laurie" Lucas looking for permanent place to settle after losing a nice spot. He and John Lace are working at John's office temporarily. . . . Pete Palulis has moved back to Roseland, taking over Gus Johnson's practice. Gus has retired and plans to soak up the sunshine of Florida.—*Der Column ist, A. Fick.*

NORTH SUBURBAN

Heard a new remedy for cold sores on the radio just the other day, DEEP FROZEN band aids, and so, now we finally have the cool weather everyone was just itching for. . . . Jay Welborn wound up his golf season at Sunset Ridge Country Club by winning the Club Championship. Two rounds of 75 each clinched the title for him, and Mrs. Welborn shot three mighty neat rounds—90, 82, 82, to win the ladies' championship. Jay will be defending his ADA Championship in San Francisco about the time this shows up in print. . . . Zenas Shafer and the family are all settled in Barksdale, Louisiana while Zene gives Uncle Sam a



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boost in the dental department of the Air Force. . . . Saw a gal the other day who's nickname is SWITCHBOARD. When she walks all her lines are busy. . . . Harry Chronquist visited with his mother over a long weekend near Poskin, Wis. . . . Bob Whitfield spent a week in Wisconsin fishing . . . and Jim Lynch spent a few days at Mille Lac Lake, Minnesota. While in that area he and the family were guests of the City of St. Paul, and stayed in the pent house suite of the St. Paul Hotel as the Typical American Tourish Family. Always knew friend Jim would be a success. . . . O. B. Kibler, Gene Stearns, Harry Chronquist, and L. V. "Stevie" Stephenson pooled their equipment for their trip together to the Northwestern University North Woods Seminar at Sand Lake, near Flambeau, Wisconsin; rented a brand new Chevvy station wagon, and hauled all their fun equipment with them—*sounds like fun*. . . . Art and Marcia Freeman, not to be outdone by the Douglas Cooks came up with a real slugger on Sept. 26. Youngster #4, William Charles at 10 lbs., 5. . . . Uncle Milt Dawson reports the arrival of Jane Emilie on August 11. . . . This feller Floyd Grover just could not stand it. Space in his garage for four cars, and only two cars to put the space to use. Floyd just picked up a snappy Ford convertible for daughter Judy. Now it always looks like he's got company. . . . Tod Dewel is back in town for a few days, but our latest report indicates that he will give two papers for the Southern Society of Orthodontists at Charlotte, N. Carolina on Sept. 26 and 27, and will then go to Columbus, Ohio, October 3 to present another paper for the Great Lakes Orthodontic Society. Tod revealed, too, that Waldo Urban will be in Des Moines, Iowa on October 3 to read a paper for the Central Section Orthodontists. . . . Otto Brasmer visited with a classmate for a week beginning Sept. 11. The whole class was invited for a week for free — air-conditioned houseboat, a guide for each guest to bait the hooks, light pipes and cigarettes, tie shoe laces, etc. We understand this friend has so

many oil wells he just reports the number of wells for income tax purposes—can't count all the money. . . . The North Shore Chapter of the American Cancer Society has elected Bob Christopher and Douglas Cook to the Board according to our good friend Jim Keith, who is retiring as Vice-President. Jim, incidentally, had surgery September 26 at St. Francis Hospital. At last report, Jim was doing well. . . . We've lost a wonderful friend, gentlemen, a man who always had a smile for everyone, and a friendly grasp and hello for the newest member of the Society. Bill Murray passed away Monday, September 19. A graduate of Northwestern in 1916, Bill was then too young to take the State Board Examination, and remained on the staff of the University for two years as an instructor in Prosthetics. In 1918 he opened his practice in general dentistry in Evanston until 1921 when he first limited his practice to Orthodontia. Bill was extremely active in the society as the head of many committees and as president of the American Association of Orthodontists. He was a Fellow of the International College of Dentists, Diplomate of the American Board of Orthodontia, and a member of the Central Section of Orthodontists, and the Chicago Orthodontic Society. Bill was an honorary member of the Southwestern Association of Orthodontists, and of the Southern Association of Orthodontists, and a member of Delta Sigma Delta. Glenn Jackson, recently associated with Bill, mentioned a letter from the Editor of the *American Association of Orthodontists Journal* in which he found the statement—"one of the finest and most influential men in the association." So it's good-bye to one of the best friends we have ever had, to a great gentleman who would never have grown old. Bill was a young man at sixty. He loved sports, and his fellow men. Our deepest sympathy to his family. Glenn Jackson will take a leave of absence until after the first of the year from his duties on the staff at Northwestern to maintain the practice.—F. S. Verink, Branch Correspondent.

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THE PRODUCTION OF MULTIPLE RESTORATIONS WITH HYDROCOLLOID

(Continued from page 10)

the single restoration, the impression containing the prepared tooth may be poured with stone twice. The first pour provides the single working die, while the second may be used for adjusting the contact points and for articulation with an opposing stone model.

CARE OF THE MODEL

In the shaping up operation, the model should be held by the stem and not by the cavity portion involving the delicate margins. The area near the margin should be cleared away with a heatless stone or bur removing all visual obstruction for the fabrication of the wax pattern. The single model should be freed of all grindings to avoid contaminating the wax and subsequently the gold casting.

OCCCLUDING THE MODELS

Occluding the models so as to permit the fabrication of restorations requiring a minimum of adjustment in the mouth is accomplished when feasible by mounting the casts of the complete arch without a wax bite. In this instance, there must be a sufficient number of teeth located strategically with worn facets for proper indexing.

When a wax bite is made for single or multiple restorations, a sheet of wax the full width of the dental arch proves to be most satisfactory whether for unilateral

or complete cases. With bilateral resistance a patient is more likely to bite evenly and to a complete centric closure without terminating off center on the slope of the cusps. Registration of centric and the eccentric positions associated with rehabilitation of a complete mouth will be discussed later.

Lubrication may be applied any time after the model has been trimmed and is free from grindings. It has been found advantageous to paint the cavity portion with microfilm, then dry it with compressed air. The residue which remains on the die is an excellent lubricant. Hot wax may be added without its adherence to the model unless the hot instrument burns the wax, through the film, into the porosity of the stone.

THE WAX PATTERN

Wax for the fabrication of a pattern should be free from residue and reasonably soft, yet sufficiently hard for easy handling and when carved will produce a smooth surface. Strains in the congealed wax present a problem; however, a technical procedure can be followed which will minimize the release of strains resulting in distortion.

From experience, supported by early scientific work of Skinner⁹ and others and more recently by Phillips,¹⁰ the strains produced from melting wax in the die cavity can be controlled more readily, resulting in a greater percentage of restorations which fit than those castings made from patterns where the stick or

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In this procedure the pattern should be built up to near the desired size or larger, then shaped up for anatomical form with a minimum of correction with hot wax. For obvious reasons, small portions have to be added for contact points, occlusion, and margins while the addition of large portions should be avoided.

With the execution of the present investing and casting methods, the margins of the pattern may be corrected to a position which will require very little burnishing or polishing to reduce the gold to a level flush with the cavity margin.

THE ADVANTAGES OF THE INDIRECT TECHNIC IN FIXED BRIDGEWORK

Replacement of teeth through the media of a bridge may be made and assembled completely by the hydrocolloid indirect technic with the same expectancy of an accurate fit as the restoration of a single complex crown. It is necessary, however, to respect the limitations of the elastic impression material, stone models and to assemble the bridge without distortion.

All troublesome or questionable steps in the construction of an accurately fit-

ting bridge can be avoided by following two distinct and dependable procedures. First, the model should be poured solid, and secondly, the bridge should be assembled by casting.

Constructing restorations from models with removable dies or split models of various indexing designs have been used with success by skilled operators since the innovation of the hydrocolloid technic. However, it has been mentioned frequently by some men that bridges fail to fit at times and must be rebuilt. Other dentists have complained that the bridge had to be placed in the mouth at least 24 hours without cementation to allow the teeth to move, relieving the tightness, before a complete seating of the bridge.

CAST ASSEMBLED BRIDGE

Since 1940, the author has assembled the fixed bridge by casting the gold pontic around gold bars extending from each abutment and overlapping in the edentulous space. Although the joint is rigid, solder is used to give it additional strength and allow for polishing a smooth surface. Shrinkage in casting the pontic is compensated for by using the same technic employed for the cast gold inlay.

The dependability of the fit in the mouth rests not entirely on the cast assemblage of the bridge, but the fabrication on the solid hydrocol model. This procedure has been followed routinely, with few exceptions, for years, its reliability warranting the completion of the bridge ready for cementation at the time



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of the patient's second visit. This includes the placement of the esthetic facing. Only minor adjustments are required before seating.

Form and function can be restored to simulate nature with less physical effort with the hydrocolloid indirect technic. The sculpturing of the abutments is done at the bench with accurate models, replicas of the condition in the mouth, with complete control and accessibility to all areas without visual or mechanical obstruction. Abutment teeth which are badly mutilated, requiring a preparation extended beyond the cementoenamel junction on the root, can be restored for efficient masticatory function and contoured with dispatch for the protection of the gingival tissue surrounding the teeth. Normally, the interproximal space is filled with soft tissue, but with tooth disintegration the papilla disappears, leaving an area for food impaction and the crest of the receding gingiva without protection.

The indirect technic permits contouring the interproximal surface for a properly located contact point with a convexity directed gingivally, buccally, and lingually to shed food. The form in wax for a crown restoration can be modified easily to re-establish the cervical curvature at a level which will protect the free gingiva and direct the excursions of food away from the vulnerable crest of the gingiva.

Occlusal form prepared with supplemental ridges can be coordinated easily

using a spotting powder with articulation to enhance chewing and minimize the reflected stresses on the supporting alveolar bone. Alignment and buccal form for esthetics is readily obtained when preparing the restoration out of the mouth.

COMPLETE MOUTH REHABILITATION

Hydrocolloid plays its greatest role in multiple restorations and in the rehabilitation of natural teeth to cuspal coordination. Dental arches with many teeth missing, worn out restorations, and a loss of vertical dimension may be restored to normal physiological function with a remarkable degree of accuracy and reduced number of operating hours at the chair and in the laboratory.

The dimensional accuracy and exactness of duplication of cavities, margins and soft tissue making up the entire arch makes it possible to construct this type of work at the bench without interruption by the patient, fitting patterns in the mouth, or adjusting contacts of the finished restorations.

The production of full mouth reconstruction by this time-saving method is aided by the use of an adjustable face bow for orienting the casts in the articulator and a dual tracing instrument for registering inter-arch positions; centric, lateral and protrusive. The registration instrument can be made to fit the models and the mouth in a like manner and is stabilized by two metal cast plates, upper and lower, with attached inlays which rest on strategically located prepared teeth. The two plates are securely seated and held in position against the teeth by a center screw and bearing plate located to distribute the closing force and maintain the previously selected free-way space.

After the orientation of the models in the articulator with an inclination which the arches maintain in the living subject and the inter-arch positions of the mandible are reproduced, the case is surveyed for occlusal, buccal and labial alignment. This is followed by forming and sculptur-

ing the teeth in wax for each of the preparations. The wax restorations with anatomical form are balanced for reciprocal intercusp relation, providing an architectural model in wax and a visual picture of the case before it is converted into hard restorative materials.

CONCLUSIONS

Multiple restorations can be coordinated, one with the other, on master models without necessity of checking or fitting in the mouth. Cases can be constructed, aligned and completed to a finish necessitating few adjustments with the hydrocolloid indirect technic.

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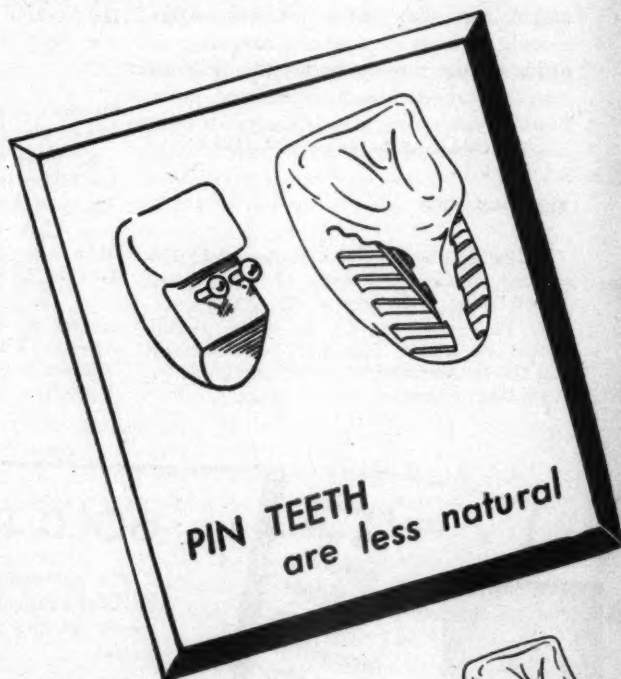
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NEWS AND ANNOUNCEMENTS

(Continued from page 12)

per week and for a two-week summer encampment. For an unmarried officer with no previous military service, this would amount to approximately \$500.00 per year. Married officers and those with previous service would receive a proportionately larger amount.

There are many advantages to be gained from joining the Illinois National Guard. These men would serve with the Division Dental Section of the 108th Medical Battalion. The Dental Section for the past five years has received Superior ratings from the Regular Army. Membership in this unit would enable these students to partake in the training program of the Dental Section, with ample opportunity to lecture and demonstrate on dental subjects. They will gain valuable experience in both medical, dental and military subjects, such as first aid, sanitation, map reading and military tactics. The Guard offers much in the way of social activities, comradeship and the opportunity to associate with men of their own and allied professions.

The Division Dental Section of the Illinois Guard also has a few openings for former Army Dental Officers who wish to avail themselves of the opportunity to accumulate time for a retirement pension.

It is interesting to note that all the dental officers of this unit are sons of dentists or physicians. The unit is headed by Major Toby Weinshenker, son of the late Lewis T. Weinshenker, a former Vice-President of the Chicago Dental Society. Major Weinshenker has served with the Illinois National Guard for over sixteen years. The Division Prosthodontist is Lt. Col. William G. Vopata, former Director of the Chicago Dental Society and now Secretary of the Council on Relief of the American Dental Association. He is the son of William J. Vopata, M.D., who has practiced medicine for over fifty years and is Examining Physician for the Illinois State Athletic Commission.

Others in the Dental Section are Capt. Earl Kuznetsky, son of Samuel Kuznetsky of the Northwest Side Branch; Capt. Jack Zimmerman, son of Samuel Zimmerman, also of the Northwest Branch; Capt. Herbert Weinfield, son of Harry Weinfield of the West Side Branch; and Capt. Stanley G. Tylman, a member of the Ethics Committee of the West Suburban Branch and Program Chairman of the Far West Study Club. He is the son of the well-known Stanley D. Tylman.

Any of these officers will be happy to talk to any students who are interested in joining the Illinois Guard. The unit has its weekly meeting every Wednesday night at the Northwest Armory, 1551 N. Kedzie Ave. (at North Avenue). The telephone number is EVerglade 4-1044 for those who wish to call at any time during the week.

MRS. VAN DER VRIES TO BE HONORED AT DINNER

Members of the Healing Arts professions will honor Mrs. Bernice T. Van der Vries, Representative from the Seventh District of the State of Illinois, at a testimonial dinner at the Congress Hotel on November 7th at 7:00 p.m. Mrs. Van der Vries was of great assistance in the defeat of the late House Bill 1118. The event is sponsored by the Interprofessional Committee.

NAVAL RESERVE MEETING

The regular monthly meeting of the combined dental companies of the U. S. Naval Reserve will take place on Friday, November 28th, at 8:00 p.m. sharp, at Naval Armory, Randolph Street at the Lake. The speaker for the evening will be Dr. Arthur Elfenbaum, Professor of Diagnosis, Northwestern University Dental School; his subject will be "Diagnosis in the Dental Office of the Future." Visitors are always welcome.—Dr. A. B. Nordlie, Program Officer.

